

2018	Local Oscillator	March
	<h1>Local Oscillator</h1>	
Mesilla Valley Radio Club		

This is a pdf file. It will print easily. A free pdf file reader is at <http://www.adobe.com>

Current Events			Table of Contents
Date	Event	Time	
Sat	Informal at Cracker Barrel	6:00 AM	All Band QRSS
M, W, F	Informal Wal-Mart (West)	10:00 AM	New By-Laws
Wed	MVRC Net 146.64	6:45 PM	Board Minutes
Mar 1	Board Meeting Club House	7 PM	Meeting Minutes
Mar 3	Coffee Club House	8 AM	Club Location
Mar 3	Business Meeting Club House	8:45 AM VE Testing	Club Officers
March 6	Builder's Group Club House	7PM	Membership Application
March 13	Builders Group Club House	7 PM	
March 20	Builders Group Club House	7 PM	
March 27	Builders Group Club House	7 PM	
May 5	Bean Feed Club House		
For more events see http://www.n5bl.org/calendar			



More information at <http://swantenna.com>



Board Discussing the New By-Laws

The Articles for This Month

Items of Interest

The big item for this month is the new by-ways. They are not that much different from the old ones and actually have not much day-to-day influence on anything. BUT they are the last word on any question of club operation. The official version is included here and on the web site.

Other items discussed and coming up are

- The Bataan Death March
- Bean Feed
- Field day
- Six meter repeater

WA5DJJ has recently made great progress on his project to have a QRSS signal grabber on all bands. There was a recent short article on his efforts in the QRP Labs news letter. It is repeated on the next page.

6. The WA5DJJ Supergrabber!

David WA5DJJ is constructing a Supergrabber made from [QCX transceiver kits](#), used in receive-only mode! See David's Supergrabber here: <http://qsl.net/wa5djj/>

A "grabber" is the term used for a receiver connected to an audio spectrum analysis program on a computer, with several minutes' of a few hundred Hz of spectrum displayed. The image is regularly updated on a web page. It is used for viewing QRSS signals, these types of transmissions were used pre-[WSPR](#). The [QRP Labs Ultimate3S QRSS/WSPR transmitter](#) is one example of a transmitter capable of sending QRSS type transmissions, although the majority of operators use their [U3S](#) as a [WSPR](#) transmitter.

Dave's dream for several years, is to operate an all-band grabber. Not just a single band e.g. 30m, as most grabbers out there - and not a compromised poor-performance wideband SDR - rather a high quality, high performance system for all LF and HF Bands. The [QCX transceiver](#) priced \$49 allows him to achieve his cost goal of sub-\$100 per band, when paired with an inexpensive Raspberry Pi computer for decoding. The [QCX](#) is a very high performance receiver.

Dave writes:

"There is still more to come but I now have 7 bands on the website (160M, 80M, 60M 40M, 30M , 20M, 17M) and the blank spots will be filled in as the QCX transceivers come in from Hans's kit factory. The Lower shelf blanks are for 15M, 12M and 10M which will be modified 17M QCX transceivers. The upper shelf Blanks will be filled with modified 30M QCX receivers with up converters in front of them for 2200M and 630M. The silver box on the right hand side second shelf is my 10MHz Crystal frequency standard that will be used for the up converter's Local Oscillator and the 27MHz frequency stabilized generator that will be fed to all of the receivers when it is finished and installed. Then there will be NO MORE frequency drifting. Also in the works is modifying the receiver input by removing the low pass filters and replacing them with Hans's Bandpass filters. Now that the Grabber is modularized for each band, they can be worked on individually making upgrading much easier. This also allows me to try out ideas to improve a certain band without disrupting the whole grabber system. I expect in the coming months that you will see the empty spaces filled with experiments that I am trying to see if I can squeeze some more signal out of these fantastic little radios."

It's a fascinating and unusual use for the [QCX transceiver!](#) I always like to see a reminder of non-WSPR modes too. There is a lot to learn about propagation and unusual ionospheric effects, from QRSS (and other) transmissions. So fire up your [Ultimate3S](#) on non-WSPR modes and explore, at the same time giving some signals to Dave to help him enhance his system!

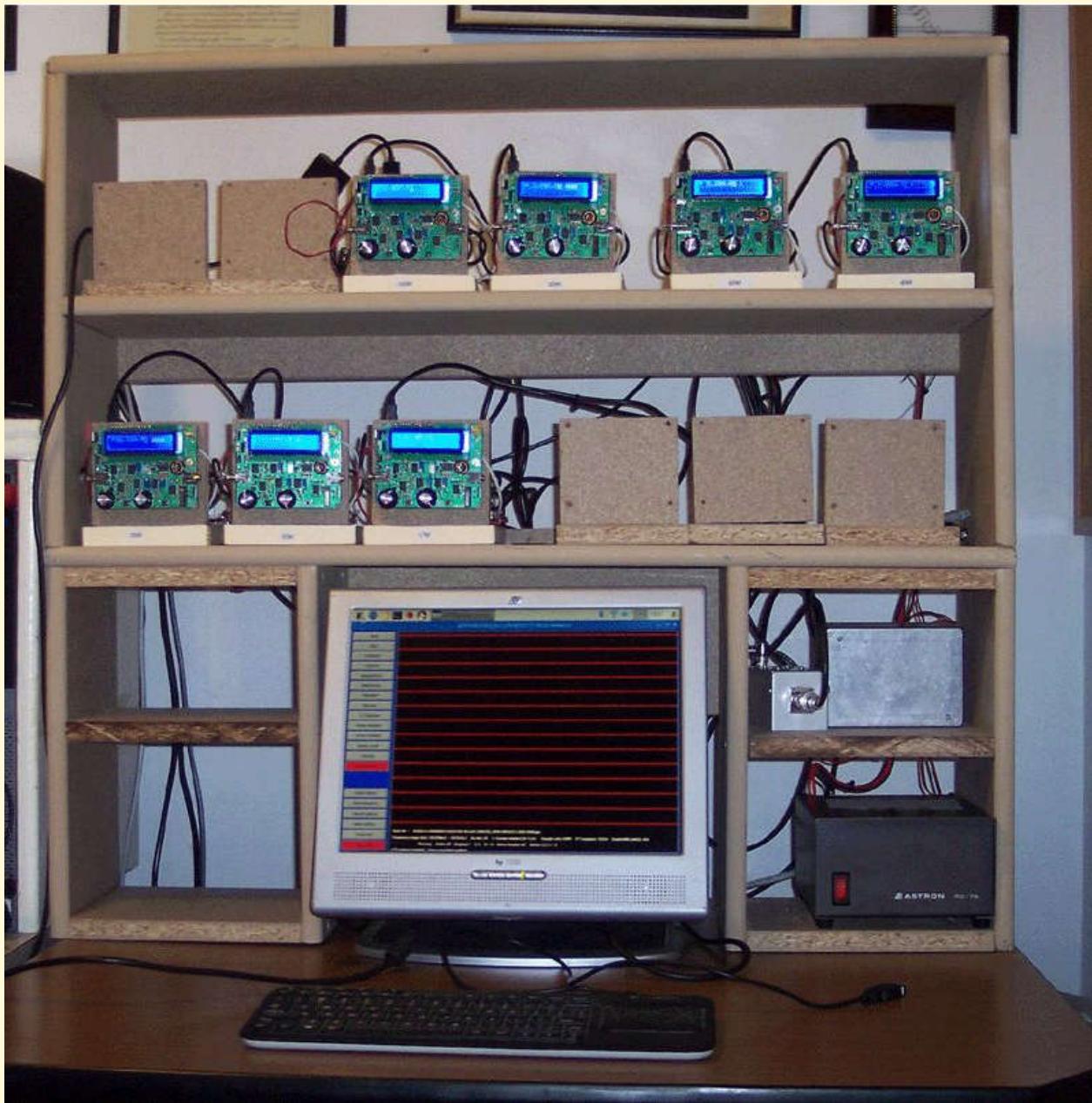
Some photos of his equipment can be found on the next page.
Here is WA5DJJ working.



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By-Laws

BY-LAWS OF MESILLA VALLEY RADIO CLUB

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Approval Signatures 6

Article 1. Membership

Continuing membership in the Club requires that the member abide by the Articles and the By Laws and have paid the required dues. A valid amateur radio license shall be required for full membership. Each licensed amateur in a family membership shall have one vote. A member is entitled to all the rights and privileges of the Club. Membership in this Club is open to all persons interested in amateur radio. Full membership is available only to licensed radio amateurs. The club will offer associate membership to non-amateurs who desire to join. Associate members will be non-voting members of the club and cannot hold office. Otherwise, associate members will have all other club privileges.

Denial of membership and Expulsion of Members. The board of directors, by a two-thirds majority vote, may elect to deny membership to any individual who has a history of disruptive behavior, verbal or physical assault against club members, intentional frequency jamming, misappropriation of club assets and refusal to abide by the club By-Laws and decisions of the club. Any person denied membership has the right to appeal the board decision to the full membership of the club at a business meeting.

Article 2. Meetings

Business meetings. Shall be held monthly at regular times and days. The day and time for the meeting will be determined by the membership and will be announced in the newsletter at least 15 days in advance. The board of directors can cancel a monthly business meeting. The club shall have an annual business meeting in November of each year to elect officers. The President shall chair the meetings in accordance with Robert's rules of order. Fifteen percent (15%) of the members shall constitute a quorum for the transaction of all business. Future meetings may be rescheduled at any monthly business meeting

Social meetings. Will be held as desired by the membership. Social meetings are typically breakfast or dinner meetings arranged at a local restaurant and will not constitute a business meeting. The date and time for social functions will be announced in the newsletter at least 15 days in advance.

Board of Directors. Meet before each business meeting to suggest agenda items for the business meeting; discuss progress of various club projects; prepare a budget for recommendation to the members and to refer concerns of the Club members to the appropriate director for resolution. The President shall chair the Board of Directors' meetings in accordance with Robert's rules of order.

Article 3. Dues

Dues are levied on an annual basis by the Club. Single membership, family memberships and associate memberships shall be offered. Dues may be prorated for first time members only. Changes in dues will be recommended by the Board of Directors and approved by a majority vote of the members present at a business meeting. Dues are due in January of each year and are delinquent April 1. An individual who has not paid

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dues by June I will be dropped from the club.

Article 4. Board of Directors

The board shall consist of at least six (6) directors and no more than ten (10), and the elected officers. The board of directors shall oversee and guide the day-to-day operations of the club in accordance with the members' wishes as agreed at the business meetings. Directors shall be elected by either written or oral ballot of the members. The election will be held at the business meeting in November of each year, and newly elected officers and directors will take office on January 1. Vacancies occurring between elections shall be filled by appointing an acting officer or director to serve until the next regular election. An acting president shall be appointed by the board of directors and other acting officers and directors will be appointed by the president. Officers and directors may be removed by introduction of a motion at a business meeting. At the next business meeting a majority ballot of members present shall be required for removal.

Article 5. Duties of Directors

The elected directors and appointed acting directors shall have the following responsibilities:

Clubhouse Director: Shall be responsible for the maintenance of the clubhouse and grounds, and scheduling work parties and other activities at the clubhouse. He shall formulate policies for operation of the radio room and be responsible for the safekeeping and maintenance of all of the Club equipment such as transceivers, antennas, towers, rotors, coax, etc. located at the clubhouse. He shall maintain a complete inventory that includes information regarding make, model, serial number, and current location of equipment. He shall maintain the keys for the clubhouse and other associated buildings and maintain a roster of who has keys. The clubhouse director will request assistance from other members as required.

Education Director: Shall arrange and conduct classes for people who want to receive licenses. Other members of the Club will be called upon to assist with teaching of classes. The education director shall also be responsible for obtaining speakers and programs for the business meetings.

Repeater Director: Shall be responsible for operation, maintenance, modifications, installation, frequency coordination, and landlord interfaces for all repeaters operated by the Club.

Communications Director: Shall be responsible for Field Day and other club contests, for coordinating communication for community events such as ARES, RACES etc. and for coordinating club support to public service organizations.

Special Events Director: Shall plan and implement such activities as the Annual Bean Feed food service, the monthly business meeting refreshments and similar activities. The Director shall also arrange for Club social events such as the annual Christmas Party.

Newsletter (Local Oscillator) Director: Shall be responsible for obtaining articles, editing, typography, makeup and editing of the newsletter. The Director shall also be responsible for distribution of the monthly newsletter and maintaining an archive of newsletters. The Director is also responsible for the creation and maintenance of the

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Club WEB site.

Information Technology (IT) Director: The Information Technology (IT) Director oversees the operation of the communications aspects of MVRC. Oversight includes the equipment and software used for administration, logging, site security, networking, internet access, etc. on the club house computers. Also included is the configuration, access for members, archiving, maintaining updates and upgrades, and keeping the Board apprised of operational status and making recommendations when needed.

Additional Directors: The duties of any additional directors will be determined by the board.

Article 6. Committees

Finance Committee: Shall consist of at least two members who are not officers or directors of the Club. This committee shall review income, expenses, balances and financial records of the Club annually or when there is a change in club treasurer. The Treasurer's monthly summary, year to date income and expense summaries, monthly bank statements and identification of persons with signature authority over accounts shall be generally reviewed, with underlying data available if requested. A review report will be read at the next business meeting. Upon acceptance, the report and the year-end financial records will be turned over to the treasurer and the report placed in the archives.

Nominating Committee: Shall consist of at least three members. The committee will present a selection of at least one candidate for each office to the membership for voting at the November meeting.

AD HOC Committees: The President may appoint ad hoc committees to be responsible for various Club activities. These committees shall report to the President. The President may remove or add members to each ad hoc committee as necessary. The President shall serve as an ex-officio member of each committee and shall vote only to break ties. Each committee will serve for a specified period of time, after which it will disband.

Article 7. Affiliation

To assist in carrying out these purposes, the Club maintains, and intends to maintain, an active affiliation with organizations that support or use amateur radio services. ARRL is our current affiliation.

Article 8. Officers and Terms

The officers of this Club shall be a President, a Secretary, and a Treasurer. The officers shall be elected for a term of one year and may run for reelection when their term ends.

Article 9. Duties of Officers

The President. Shall preside at all business and board meetings of the Club and shall conduct them according to the Robert's Rules of order. He shall enforce due observance of these By-Laws, decide all questions of order, sign all official documents adopted by the Club, serve as an ex officio member of all committees and perform all the customary duties pertaining to the office.

The Secretary. Shall record the members present at each business meeting; Maintain

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the roster of club members including call sign, address, phone number and email address; keep a record of the business meetings and board meetings; submit appropriate applications; carry on both regular and Email correspondence as required; submit communications and minutes of the previous meeting to the newsletter; submit minutes of each business meeting and Club related documentation for inclusion in the Club archive at the end of each calendar year; keep the official copy of the Articles and By-Laws of the Club; cause all amendments, changes and additions to be made on this official document; and make it available for consultation by members upon request. The secretary shall be responsible for the collection, storage and cataloging of all archive materials passed on to

him by various officers specified in this document. The secretary shall assume all the duties of the President in his absence. If there is a motion made at a business meeting to remove the President, the secretary shall assume the duties of the President until the motion is resolved. The secretary shall be responsible for the maintenance of the club calendar. At the end of his term, the Secretary will pass all official documents on to his successor.

The Treasurer. Shall keep an accurate account of all monies received and disbursed; keep an accurate account of the Club's financial assets; and status of the Scholarship Fund in the NMSU Foundation Office. He shall maintain a list of club members who have paid their dues, provide this information to the secretary and assist in maintaining the club roster. He shall provide a monthly report of expenses and income to be published in the Club newsletter. He shall deliver a financial report to the membership at year-end. At the end of his term he shall pass all the records to his successor and to the Club financial records committee.

Article 10. Budget

Expected budget: In October of each year, each director shall submit to the Board of Directors

an annual budget request. The request will include projected needs of the Club for meeting the needs of their responsibility. The Board shall review and refine requests and develop a final annual budget. After the board finalizes the budget, it will be presented to the membership for approval at the January business meeting. The board of directors shall have full authority to expend funds identified in the approved budget.

Unexpected budget: Unbudgeted expenditures of less than \$200 per year can be approved by the

president. Unbudgeted expenditure of less than \$500 per year can be approved by a majority vote of the Board of Directors. Unbudgeted expenditures greater than \$500 must be approved by a majority vote of the members present at a business meeting.

Article 11. FCC Compliance

The Club will, within its capabilities, provide advice and assistance to any member requesting it to assure all operations and emissions of member stations conform to FCC regulations and good amateur radio practice.

Article 12. Scholarships

A Scholarship Fund has been established with New Mexico State University's Founda-

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tion. The club officers shall select an applicant for an award based on the following criteria: A) *Must be in good standing with the university* B) *Must have a valid Technician, General, or Extra class FCC License.* C) *Must be a U.S. citizen.*

Article 13. Amendments to the Bylaws

All amendments to these Articles and By-Laws must be submitted and discussed at a business meeting of the Club. They shall be approved at the next business meeting by a (2/3) Two-Thirds majority of members present. The proposed amendments shall be published in the Newsletter prior to the vote.

Article 14. Disestablishment

The Club may be dissolved by (2/3) Two-Thirds majority vote of the Board of Directors if liquid assets of the Club (evaluated with due regard to the reasonably anticipated collectibles such as dues) become or are anticipated to become insufficient to pay the Club's outstanding and anticipated bills (the condition of which shall be referred to hereinafter as "insolvency"). Before a vote to dissolve may be taken by the Board of Directors, the membership of the Club shall be given notice of an existing or anticipated insolvency and shall be given an opportunity within thirty days to pledge and pay assessments, contributions or other payments to the Club sufficient in the aggregate to pay all outstanding and anticipated bills of the Club for a period of at least six months. In the event the Board of Directors votes to dissolve the Club, it shall have authority to sell all assets of the Club (both real and personal). If any funds shall remain after all of the Club's liabilities have been paid, the remaining funds shall be contributed to an IRS recognized non-profit amateur radio organization selected by the board of directors. When all club assets have been liquidated, obligations settled and proper authorities (such as the FCC and IRS) notified, the board of directors shall disband.

These Bylaws were approved at the business meeting of 3 February 2018 by a 2/3 majority of the members present.

Printed Name

Signature

Date

President _____

Secretary _____

Treasurer _____

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Director _____

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Board Meeting Minutes

MVRC BOARD MINUTES OF FEBRUARY 1st 2018

President Sven called the meeting to order at 7 PM.

Earl reported the flyers for Bean Feed were done and ARRL had approved the May 5th Ham Fest.

The Albuquerque hams would not be camping at WSTF for the Bataan event, and camp was still

a question. Call sign “K5B” had been approved for the ARRL special event. The antenna party was all set up and field day location was still a question.

Charles reported 92 subscribers on main page, 12 Board, 22 Builders and 16 Linux subscribers.

Furman presented the annual treasurer report itemizing income and expenses by category and percent.

Budgeting was discussed and Sven agreed to draft a proposal based on Furman's figures from 2017.

Furman also reported on the 6 meter repeater project and showed progress pictures.

Kyle brought picture framed key document copy's which were hung on the wall with check lists to be added this month. He also reported the filing of the property tax exemption.

Alex reported the local oscillator would come out the next day and he wanted a copy of the by laws to post on the website after they were adopted. Furman agreed to provide him with an electronic copy.

George reported the Super Sunday race was all set and the Bataan event was on track.

Cash brought up the idea of using the club house as a remote site through Internet connection which idea was positively received and exploration was universally approved.

Sven suggested reading the latest QST editorial on frequency sharing.

Sven adjourned the meeting.

KY2LE Secretary
2/1/2018

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General Meeting Minutes

MVRC Members meeting minutes 2/3/2018

President Sven called the meeting to order at 8:45. Over thirty members were present

After introductions the by-laws introduced at last months meeting were adopted by the membership on a motion by Kyle and a second by Dave Hassall.

Secretary Kyle pointed out the framed duplicate documents hanging in frames on the wall intended to improve awareness of key club documents and requirements to file reports with government agencies.

Treasurer Furman provided an annual report and offered copies to anyone interested. President Sven agreed to work on a annual budget using the annual report as a starting point. Furman reported shelving has been installed in the shed and the 6 meter repeater is progressing with the need for Andrews coax now possibly holding up progress.

Building director Randy reported all well and cautioned on setting the thermostat down when not in use.

Special events director Earl reported the Bataan event a normal work in progress with the ARRL notice out, call sign K5B approved and if/where a campsite unknown. Bean feed flyers giving notice of the 5/5/18 Bean feed were ready.

Communications director George reported on the need for 4 wheel drive vehicles at water points 11 & 12 of Bataan and the likely road closures. Several minutes of discussion ensued.

IT director Charles reported 94 persons signed up for the reflector on groups i/o and the previous channel would be shut down.

Repeater director Rob reported all well and the Kenwood repeaters were a good choice. Also the mesh was working.

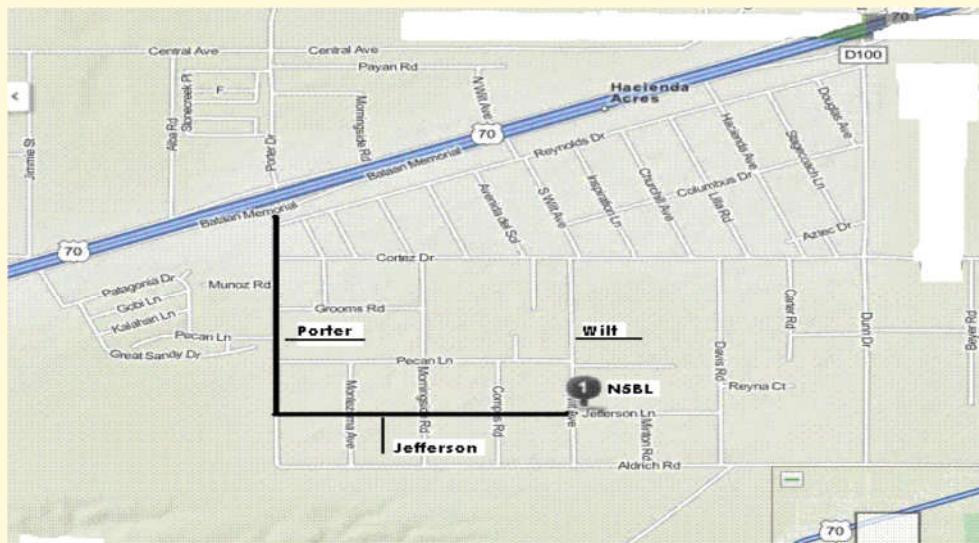
Education director Cash described and showed video and examples of some newly available kit radios and asked who was interested. Several members are interested so a group purchase and construction in late spring or summer will be attempted.

President Sven adjourned the meeting.

Secretary Kyle 2/4/2018

CLUB INFORMATION

The MVRC Clubhouse is located at the intersection of Wilt and Jefferson. To find the clubhouse, set your destination on your GPS receiver as 32 degrees 22.961 minutes and -106 degrees 41.44 minutes. If you don't own a GPS, take the Porter exit near the firehouse on US 70. It is about 5 miles east from the I 25 interchange. Go south on Porter until you come to Jefferson. There turn left toward the mountains and go to Wilt. You will see the beam on the corner. The treasurer would be delighted to receive your contribution for landscaping and furnishing. More information at <http://n5bl.org>



Officers

Office	Name	Call	Phone	E-Mail
President	Sven Breden	K5SHB	635-0414	sven.breden@gmail.com
Secretary	Kyle Gesswein	KY2LE	640-5301	kgesswein@comcast.net
Treasurer	Furman Smith	KF5KHL	382-5982	smithf@zianet.com
Board Members				
Education	Cash Olsen	KD5SSJ	382-1917	kd5ssj@arrl.net
Clubhouse	Rndy Adanson	KE5EMP	449-1410	nmreadamson@gmail.com
Newsletter	Alex. Burr	K5XY	522-2528	k5xy@arrl.net
Repeater	Robert Truitt	KE5OFK	649-4173	rohbtruitt@zianet.com
Commo	George Kopp	KD5OHA	649-9503	geokd5oha@yahoo.com
Special	Earl Drexler	N5TMT	639-0556	earld7@yahoo.com
IT	Charles Combs	KG5BVE	649-1071	kg5bve@gmio.com

JOIN THE MESILLA VALLEY RADIO CLUB

Name(s) _____

EMAIL _____

If you want confirmation that your payment was received and processed, please include your email address

Street Address _____ PO Box# _____

City _____ Zip _____ Phone _____

To join the Mesilla Valley Radio Club or renew your membership, please complete this form and print or cut out. Send it to **"Treasurer, MVRC, PO Box 1443, Las Cruces, NM 88004"** with annual dues (\$35 single, \$45 family)

Date: _____ Method of payment: Check No. _____ Other _____

Call Sign(S) _____ Family Membership Yes _____ No _____

License Class (E, A, G, T, N) _____ ARRL Member? (Y/N) _____

Are You a ARRL Volunteer Examiner (Y/N) _____

Would you like to be added to the MVRC reflector (email information system)? _____

Interests

Computer _____ Contests _____ Digital _____ Elmer _____ Emergency Communications _____

Field Day _____ Packet _____ Programs _____ Public Service _____ Publicity _____ RFI _____

Repeater _____ Social _____ License Classes _____ Teach Licensing Classes _____

Volunteer Examiner _____ QRSS _____ Other _____

Comments